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528

ELLWOOD..

... WOVEN WIRE ...

Fences and Gates.

FOR SALE BY

...FOR...

Farm and Ranch,
Pastures, Lawns,
Parks and
Cemeteries.

SECURITY FOR
Horses, Cattle,
Sheep, Hogs,
Poultry.

 BEST,
HARD
BESSEMER
STEEL.



*Compliments
of the Manufacturers.*



American Steel and Wire Co.

CHICAGO.
(General Offices.)

NEW YORK.

SAN FRANCISCO.

THE ELLWOOD WOVEN WIRE FENCES.

These fences, in each of the styles made by us, have been perfected after all known and many hitherto unknown ideas had been given a fair and impartial trial. We could make 20 different styles of fencing, but we know by careful study of conditions and by actually keeping tab on erected fences, that the **Ellwood Fences** once properly put up **will give the most wear for the money.** As that is what the fence user wants, we have spent our own money in experiments to see that he gets it—and gets it at the lowest price for which a perfect and everlasting fence can be made.

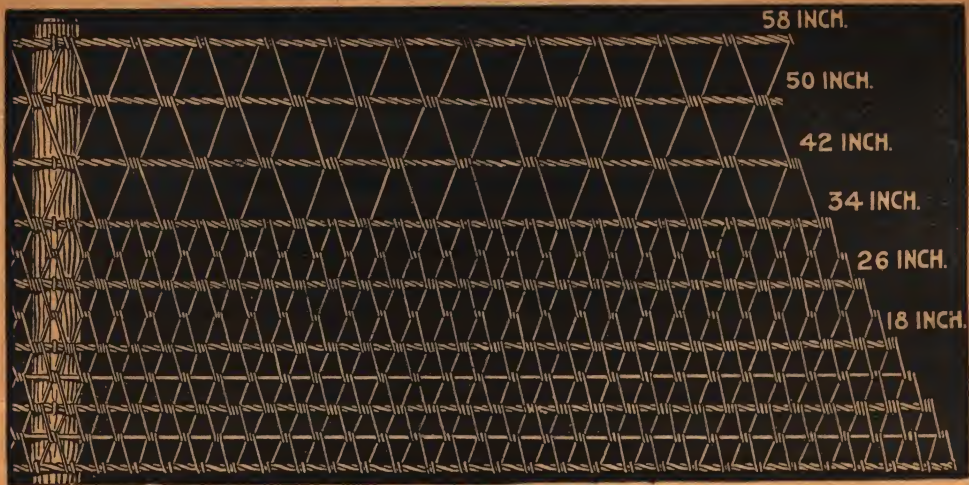
Horizontal cables of two or three coiled or spiral springs, No. 12½ wire, twisted together.

Lateral wires or stays of No. 14 wire, securely woven on horizontal cables or strands and also upon each other.

The entire fence made of best Hard Bessemer Steel wires, all most heavily galvanized.

Provision in coiled spring cables and weaving for all expansion and contraction and for adjustment to hilly ground or hollows.

Every rod guaranteed. That's the **Ellwood Fence.**

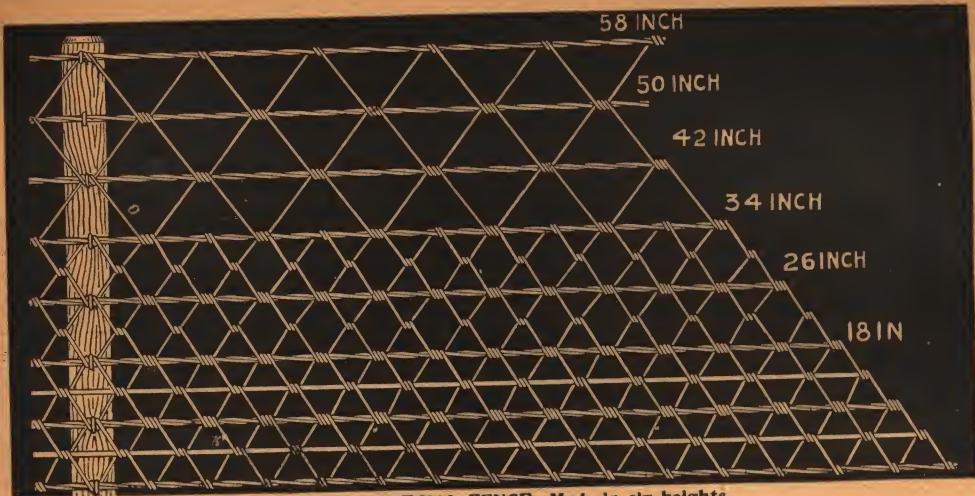


ELLWOOD STANDARD FENCE—Made in six heights.

ELLWOOD STANDARD FENCE.

We call the fence shown on opposite page our Standard Style, and always ship this style if the order does not call for any of our other styles, because it is built for general use and answers every purpose of a perfect fence for horses, cattle, hogs, pigs and sheep. We make this fence in any of the six heights shown, each height being exactly as shown in the picture up to the point where the height is marked, so that the lower heights have all smaller meshes, while the higher patterns have a more open mesh at the top, plenty strong enough to hold the strongest bull or horse, yet more open as small animals would seek to break through only near the ground. You take no chances in ordering this fence. It gives perfect satisfaction every time, and we guarantee it under all circumstances.

EVERY ROD OF ELLWOOD FENCE IS GUARANTEED

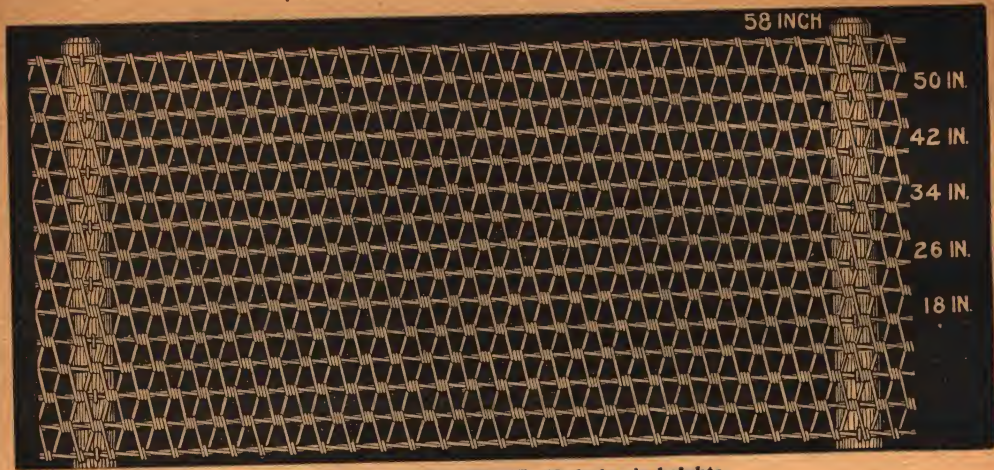


ELLWOOD SPECIAL FENCE—Made in six heights.

ELLWOOD SPECIAL FENCE.

This "Special" Fence is identical with our Standard Style, except that the up and down or stay wires form larger and more open "diamonds." There are the same number of coiled spring cables, and the same single strand re-inforcement between the three lower cables. The mesh being more open, however, enables us to use less wire and reduce the price accordingly. In many cases, where a fence is not subject to a heavy strain or hard usage, the "Special" will do as well as the Standard. Its name indicates what it is—a "Special purpose" fence, as compared with the Standard, which is a perfect "every purpose" fence. Made in six heights, just as shown in the cut.

EVERY ROD OF ELLWOOD FENCE IS GUARANTEED.



ELLWOOD LAWN FENCE—Made in six heights.

ELLWOOD LAWN FENCE.

Our **Ellwood "Lawn" Fence** is the outcome of our determination to meet the many demands made upon us for a fence at once strong, beautiful and inexpensive, for fencing lawns and yards in towns and villages, for parks, cemeteries and private or public grounds, where beauty as well as utility is required.

The **Ellwood "Lawn"** is the strongest possible woven wire combination, having been tested under the most exacting conditions. It cannot be broken, it does not obstruct the view, has no pickets to bend or be broken, nothing can crawl through or under, all animals (including boys) being effectually barred, leaving you in full possession of your premises, while leaving the view practically as open as if no fence were there.

Horizontal cables of two coiled springs twisted together, every four inches of height (No. 12½ wires), and crosswires all No. 14. A perfect 4-inch mesh throughout. Best steel and best galvanizing. A perfect and beautiful fence, for far less money than any picket fence would cost.

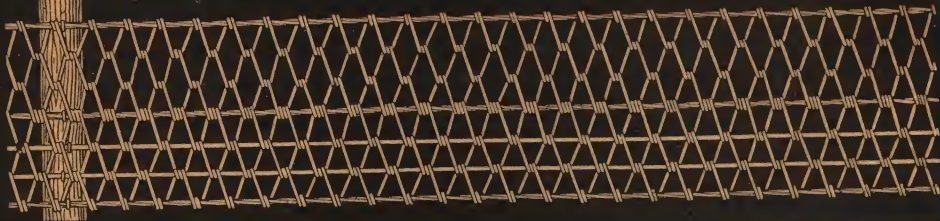
EVERY ROD OF ELLWOOD FENCE IS GUARANTEED.

ELLWOOD NO. 1 FENCE.

Made in 26-inch height only, and used very generally for a hog and pig fence. As compared with our 26-inch height of Standard fence, it is lighter, having one less twisted coiled cable, and is consequently that much lower in price.



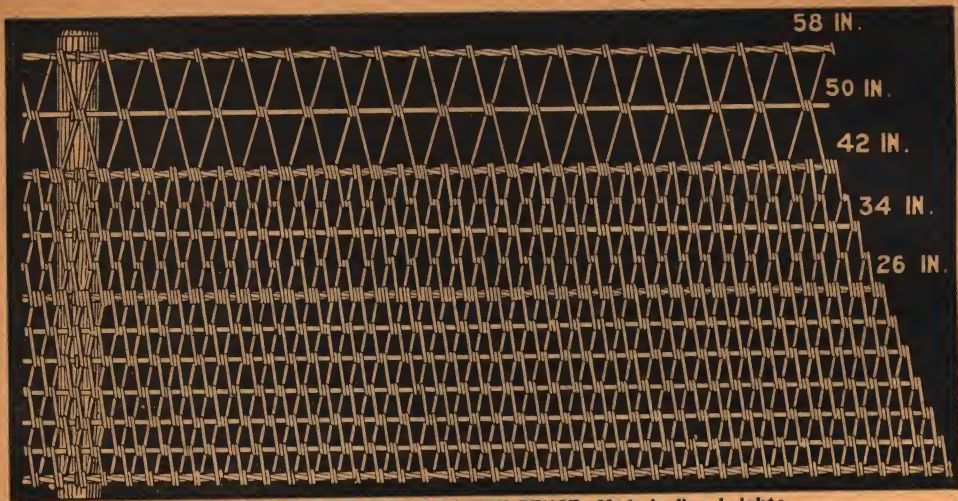
26 INCH.





ELLWOOD "PERFECT" FENCE.—(Formerly our No. 5.)

Up to the 34-inch height, this fence is the same as our Standard Style. The 42, 50 and 58-inch heights have a closer top mesh, and this being the ideal fencing for every conceivable purpose, we call it the Ellwood Perfect.



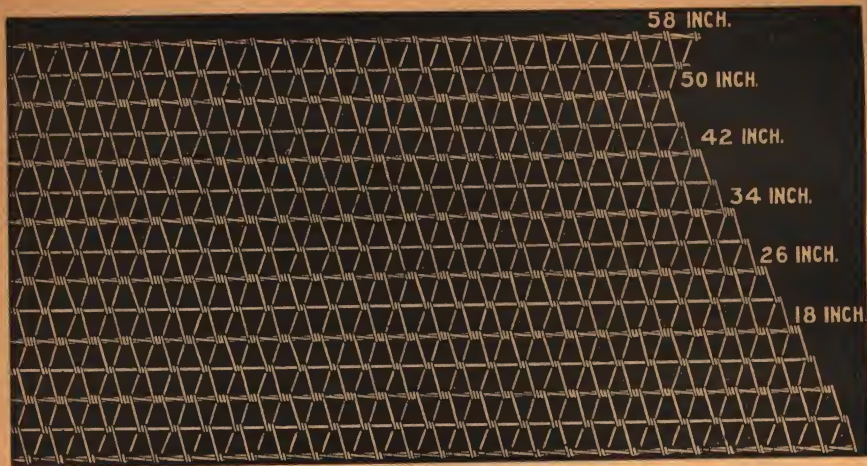
ELLWOOD POULTRY AND RABBIT FENCE—Made in five heights.

ELLWOOD POULTRY AND RABBIT FENCE.

This is a **Fence, not** a netting. That is a strong distinction but it should be well remembered. Twisted coiled spring cables and the up and down wires are No. 14 and 16 wire, and whatever height is ordered, we put a twisted cable at the top. The mesh is **two inches**, instead of four, as in the Standard fence. Thus we furnish in our Poultry and Rabbit, the most perfect success for fencing poultry and rabbits and at the same time a fence strong enough to stop all large animals.

We are confining our Poultry and Rabbit fence entirely to the 2-inch mesh, and this size mesh will always be shipped unless you specify otherwise. Can still furnish the old style 3-inch mesh but recommend the 2-inch mesh as far preferable.

EVERY ROD OF ELLWOOD FENCE IS GUARANTEED.



ELLWOOD CRIB FENCE—Made in six heights.

ELLWOOD CRIB FENCE.

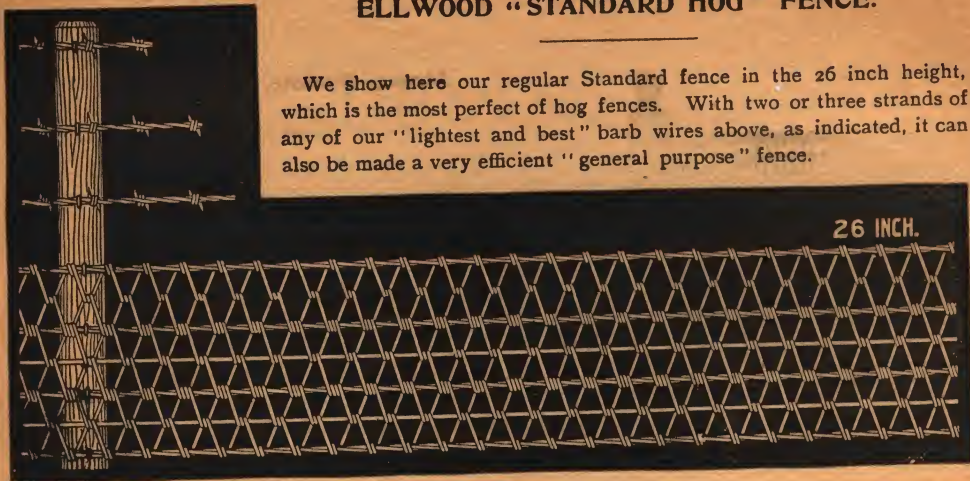


Specially designed for building corn cribs. This fencing is far cheaper, far more durable and satisfactory than wood. It cannot hold moisture nor mould your corn. It affords no shelter for vermin to eat your corn. It is at once the cheapest, most durable and most efficient siding for corn cribs, or can be used for covering hay, grain or straw stacks in the field. When thus used it is a portable crib—can be taken down and rolled up for future use.

EVERY ROD OF ELLWOOD FENCE IS GUARANTEED.

ELLWOOD "STANDARD HOG" FENCE.

We show here our regular Standard fence in the 26 inch height, which is the most perfect of hog fences. With two or three strands of any of our "lightest and best" barb wires above, as indicated, it can also be made a very efficient "general purpose" fence.



ELLWOOD STEEL GATES.

Strong, Durable, Inexpensive.

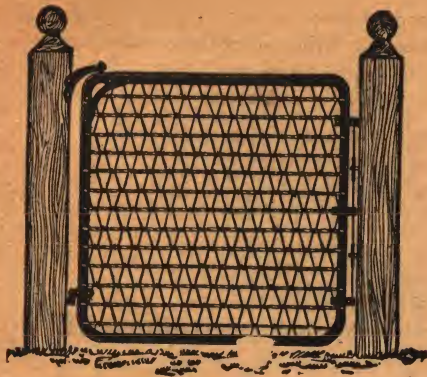
Having improved our construction of gates at every opportunity, we are now prepared to furnish

WALK GATES

SINGLE DRIVE GATES

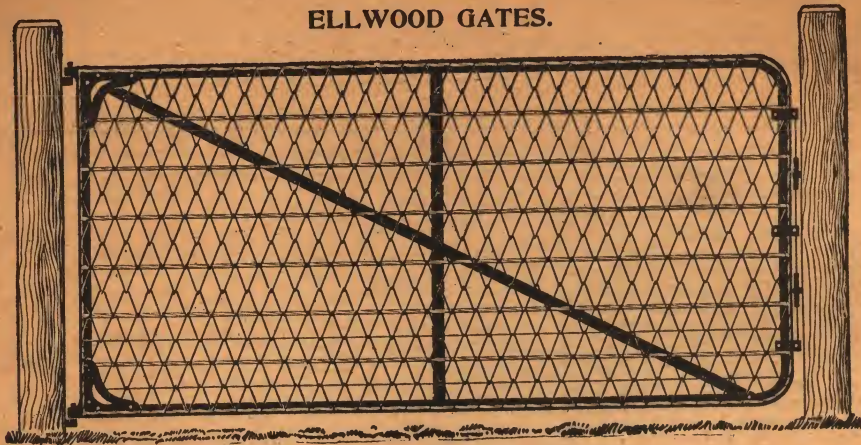
DOUBLE DRIVE GATES

that are the perfection of simplicity, durability and strength. Frames are all of "T" steel, securely braced, and are covered with any desired style of our **Ellwood Fencing**.



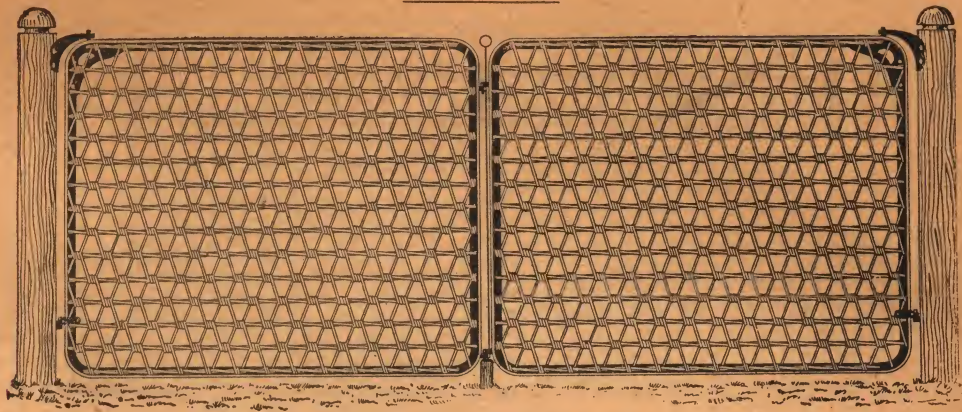
ELLWOOD WALK GATE.

ELLWOOD GATES.



ELLWOOD SINGLE DRIVE GATE.

ELLWOOD GATES.



ELLWOOD DOUBLE DRIVE GATES.

The Ellwood Field Fences are the first in

STRENGTH.—We make the wire of which Ellwood fences are made specially for this purpose, giving to it properties of hardness and resistance far superior to common fence wire. Thus the material of which Ellwood fences are made is of the highest possible grade.

The Coiled Spring Twisted Cables, extending lengthwise through the Ellwood fences every eight inches of height, are the main feature of their structural strength. They are all No. 12½ gauge.

The tensile strength of the Ellwood fences is many times greater than actual requirements, being in our 58-inch fence, for instance, 20,000 pounds or 10 tons. The Ellwood fence is the strongest fence ever put on the market.

PERMANENCE.—The galvanizing on the Ellwood fence is the heaviest possible. This, on our special steel, with a construction assuring perfect elasticity, combined with wonderful rigidity when stretched—keeping every diamond in its place, preventing any misplacement of cables or stay wires, providing for expansion and contraction—enables us to claim and prove for the Ellwood fences a permanence not to be found in any other fence ever placed on the market.

EFFICIENCY.—As horse, cattle, sheep, pig or poultry fences, or as lawn, park and cemetery fences, the Ellwood fences have more than met the most exacting requirements of their users, with never a complaint.

ADJUSTABILITY.—All our Ellwood fences will adjust themselves perfectly to uneven ground if properly handled, more readily than any other fence. And they stay adjusted—a point worth considering, for that is far from true of other styles of woven wire fences.

BEAUTY.—There is no more sightly fence than the Ellwood. It is "a thing of beauty and a joy forever" to every fortunate possessor.

ECONOMY.—When the merits of **Ellwood Field Fence** are fully considered its cost is exceedingly low. In no other fence can the purchaser secure as much real value for the same amount of money as by using the **Ellwood Field Fence**. You get a handsome, efficient and durable fence for less, or at least no more money than is charged for many styles of fence that never have and cannot prove otherwise than disappointing and unsatisfactory. The **Ellwood Field Fence** never disappoints and is always satisfactory. In the **Ellwood Field Fence** you have the smallest amount of material that can possibly be used in any shape or combination to make a first class fence; hence no reduction can possibly be made in the price without decreasing the actual worth of the fence; in fact if the strength of the fence and its efficiency are decreased to any amount, the actual worth of the fence is decreased in a much larger proportion. Don't buy some other style of fence because it costs you a little less per rod, as, if it were possible to make a really good fence by using less material and a cheaper manufacture, we would surely furnish you just that kind of a fence. We have a score of different styles of woven wire fence that we can make, and make them for less money than the **Ellwood Field Fence**, but we could not recommend or guarantee them to give you the service and satisfaction that we know you want and must have. Hence, we unhesitatingly state that in the **Ellwood Field Fence** you have the *best at the lowest possible price.*

POINTERS ON BUILDING ELLWOOD FENCES.

On the following pages we offer the results of *our actual experience* in the building of wire fences. We ask every fence user to carefully read our suggestions and are sure, if they are followed, and **Ellwood Fences** put up as we say, every rod so put up *will stay up* and will practically last forever.

IT PAYS TO BUILD A FENCE WELL.

While the **Ellwood Field Fence** will stop all animals if simply hung on the posts, yet for the best results it is absolutely necessary that the fence be put up properly. The fence is so easily put up that no one can afford to put it up except in the best possible manner. All the time spent in getting the fence up right is well invested. It pays to build a fence just as you would a house.

STYLE OF FENCE TO BUILD.

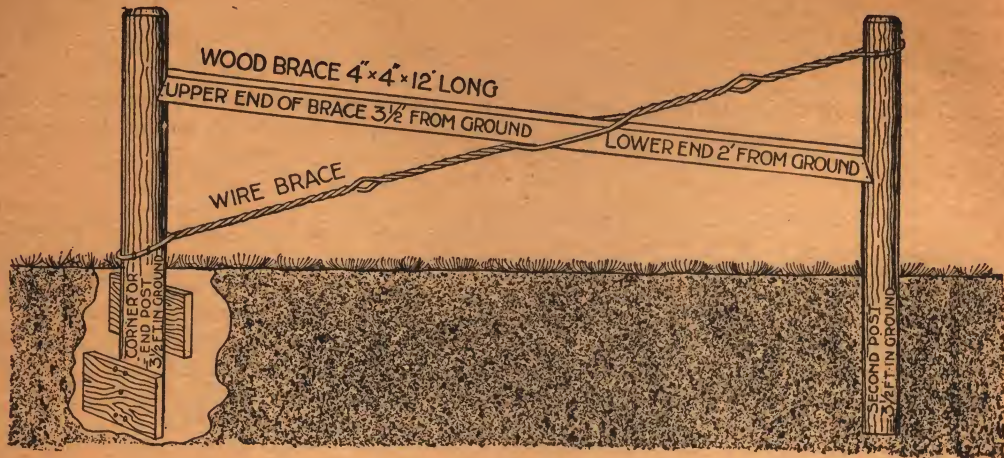
In towns the 50 and 58 inch heights are mostly used for division fences and the 42 and 34 inch heights for front fences.

For fields the 50 and 58 inch heights are complete, needing no re-inforcement of any kind. The 42, 34 and 26 inch heights for farm fencing are much used in connection with 1, 2 or 3 strands of barb wire above.

POSTS.—Get the *cheapest good* posts you can.

Set the posts any desired distance apart, *remembering* the closer the posts the stronger the fence, no matter what kind of fence. Ellwood fences are guaranteed to stand up better and give better service than any other fence with the same number of posts for a given distance. Nevertheless, the more you require of your fence the more posts you should set. Ten feet is the closest ever necessary. A rod is a good distance. At any distance up to 40 feet apart the Ellwood fences will give entire satisfaction if the fence is well stretched.

Posts should be set in line, perpendicular, well tamped and not less than $2\frac{1}{2}$ or 3 feet in the ground.



ANCHORING AND BRACING END AND CORNER POSTS.

STAYS between posts are good, if posts are set more than a rod apart, and barb wire is used in connection with the fence. Such stay can be of light wood, extending from two inches above the top strand of barb wire to two inches below bottom cable of fence, securely stapled to all the barb wire strands and fence cables. It thus serves to keep the barb wires in their proper position in line with the rest of the fence.

END AND CORNER POSTS (*see cut page 22*) and each post next to the end and corner posts, which bear the strain of stretching, should be 10 or 12 feet apart, should be of sound wood, not less than 7 inches diameter at the small end or top and should be set in the ground not less than $3\frac{1}{2}$ to $4\frac{1}{2}$ feet, according to character of soil, etc.

THE WOOD BRACE AT CORNERS (*see cut page 22*) or at starting point is absolutely necessary to secure proper stretching. We illustrate bracing and anchoring corners or starting points on page 22 and ask careful study of the illustration, as it shows the simplest, best and surest successful method. The wood brace should be well seasoned and not liable to warping. Should be 4 x 4 inches. Should be fitted into first post $3\frac{1}{2}$ feet from ground, fitted into the second post 2 feet from ground and securely spiked with four 30d spikes at each end.

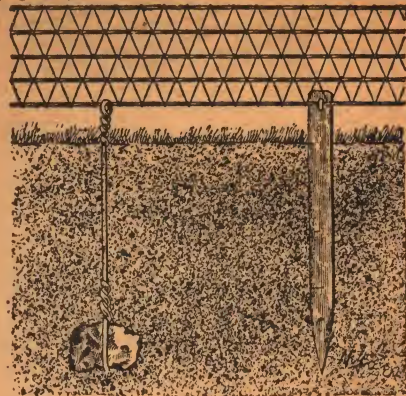
THE WIRE BRACE (*see cut page 22*) should be added after the wood brace is in position. A single strand of No. 9 galvanized wire is stapled to the bottom of corner post and to the top of next post, securely spliced. Then with stick or hammer handle it is twisted both above and below the wood brace, in opposite directions until both the wire and wood brace are under strong tension. This done you have built a truss which will stand any stretching strain.

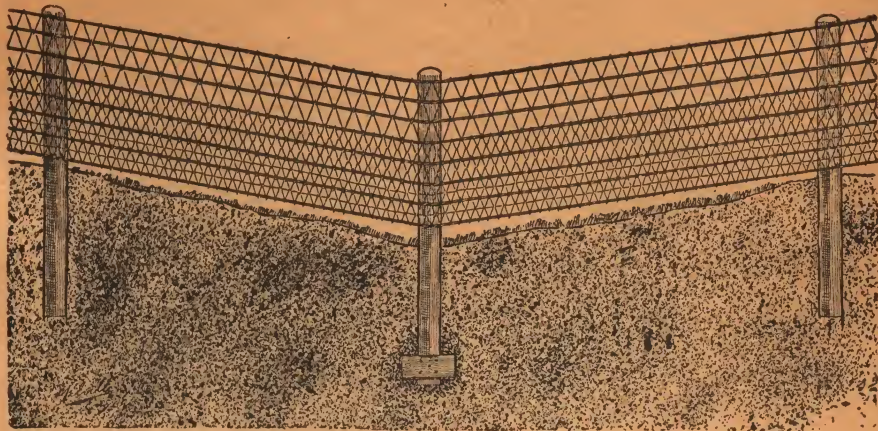
ANCHORING END AND CORNER POSTS (*see cut on page 22*)—End and corner posts should always be anchored in the ground to prevent turning, yielding or pulling up when the tension of stretching is applied. Use sound and heavy lumber, with good bearing surface. Spike one piece firmly at extreme bottom of post, on side opposite the brace. The other should be firmly spiked to post, not more than three or four inches below the ground, on same side of post as the brace (*see page 22*). Both anchors should of course be at right angles to the line of the fence.

ANCHORING OTHER POSTS (*see cut on page 25*). — All posts in hollows have a tendency to lift up, because of the tension of the fence. Posts in hollows therefore should be all anchored. *Such anchors should be nailed on the side of the posts to which the fence is attached and parallel with the line of the fence.*

ANCHORING FENCE BETWEEN POSTS is often advisable if posts are set a long distance apart, and we offer a couple of suggestions on how to do this anchoring, very clearly in the accompanying illustration.

TEMPORARY BRACES.—At every stretching point the posts should be securely braced with a wood brace same as at corner posts. These braces may be permanent or temporary, but if temporary should be left in position until the next length of fence has been stretched and stapled. There really ought to be a stretching post, well and permanently braced every 40 rods apart.





BEST METHOD OF ANCHORING LINE POSTS IN LOW PLACES.

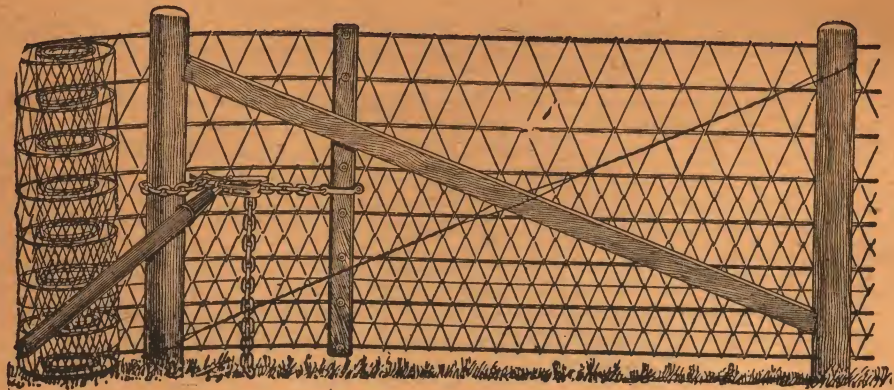
STRETCHING THE FENCE.

"Stretch it till it sings." The more you stretch Ellwood Fence the better and stronger it is. You can't break it with stretching and if you stretch it taut enough nothing else can break it. In most cases it is best to stretch a full roll (20 rods) at one stretching. After posts are set ready to receive the fence, unroll the fence flat on the ground, the bottom of the fence next the posts; lift up the end of the fence to the starting post, letting the ends of the cables wrap round post about six inches, and staple to the post with two or three good staples to each twisted cable. Do not staple the single smooth strands. Be careful to staple the fence well around on the back of the first post, as this will prevent any slipping of the fence afterwards. It is usually best to staple the fence on the starting post at right angles to the post, and whenever this rule is not best, the conditions will suggest just what is best to do. After stapling to the first post go to the other end of the fence and put on the stretcher and pull the fence tight to place; there is no danger of the fence breaking, and be sure to give it good tension. In going over hills it is a good plan, after you have the fence partly stretched, that is, so it will stand up; to go to the highest place in the fence and hang the fence up by the second cable from the top with a staple closely driven into the post; this will prevent the fence crushing on top of the hill. Also where the fence leaves the ground too far in a hollow, put your foot on the bottom cable and bring the fence into place, fastening it with a staple to post; put your staples in so that the fence can be stretched a few inches without pulling the staples out by contact with cross wires. Stretch the fence to where you want it and staple the twisted cables to the straining post back of the stretcher. The distance from the stretcher clamp to the straining post is so little that there will be no perceptible slack after the stretcher is removed.

THE LOTT STRETCHER

Herewith illustrated is the only stretcher that really stretches and the Lott Stretcher does it more easily than any other tool ever devised. It is a perfect Hercules in its simplicity and power. Nobody would ever use any other after using the Lott Stretcher or after once having seen it used.





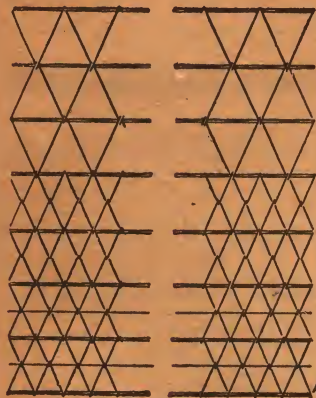
THE LOTT STRETCHER IN USE.

DIRECTIONS FOR USING THE LOTT STRETCHER.

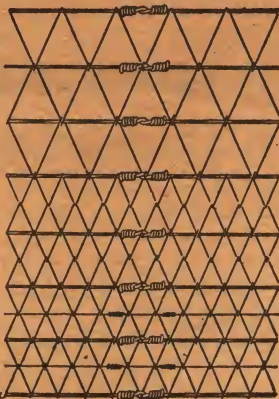
(SEE CUT ON OPPOSITE PAGE.)

We feel sure, after carefully examining cuts given on preceding pages, no one would have any difficulty in using the **Lott Stretcher** successfully and to their entire satisfaction. Its operation is very simple and at the same time very efficient. The chain attached to the wooden clamp should always attach to the center of the fence, if possible, although a little variation either way will make no particular difference. Also, the chain on the stretcher head should encircle the straining post as nearly as possible in line with the center of the fence being stretched. Always work the lever or wooden handle on the back side of the fence, or side of the posts, opposite to that on which the woven wire is to be stapled. Do not start stretching with the chain twisted between the dogs and the wooden clamp, for if you do the dogs will not take hold of the chain; start with the chain straight and you will find that everything will work smoothly and all right. When you have the fence stretched so that it is not quite tight enough and the loose dog cannot be brought forward enough to take another hold on the chain, insert the little steel pin in one of the holes in the stretcher-head so that you can release the lever or handle and have the fence stay where you want it. In attaching the stretcher to the straining post, draw the stretcher just as close to the post as you can fasten it with the chain.

SPLICING.



READY FOR SPLICING.



AFTER SPLICING.

The **Ellwood Field Fence** is very easily spliced and with a little care anyone can make a joint that will be just as strong as any part of the fence and at the same time so neat and smooth as to be scarcely noticeable after the fence is up and in place. The accompanying cuts show just how the fence should be trimmed for splicing and how it should look after being spliced. If the fence is trimmed as shown in this cut, by bringing the diamonds in the two pieces above each other and holding them in this position until spliced the fence will be found absolutely true after the joint is made and it will line up just as well as if made in one continuous piece.

ELLWOOD FENCES.

The cuts shown herewith are the exact size of the twisted cables used in our Ellwood Field Fences. In our Standard and other styles of fence we use the two-strand twisted cable throughout, as we know from actual tests this cable is amply strong for any and all ordinary uses. However, if desired we can furnish our **Ellwood Field Fences** with the three strand cable at the top or bottom of the fence, and both if preferred at very little extra cost.

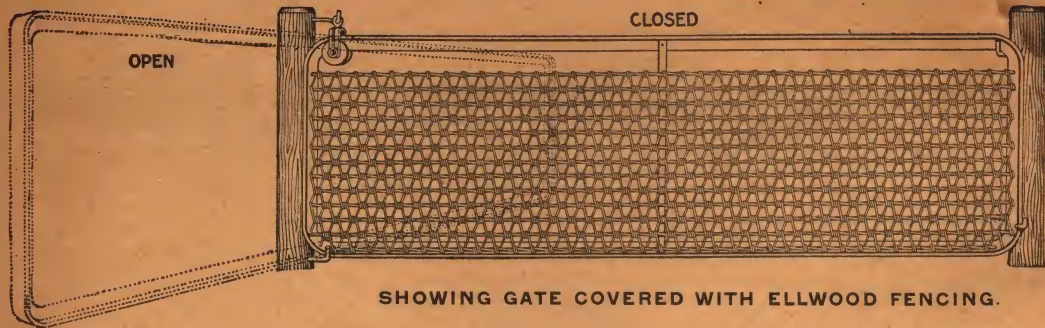


HOW AND WHERE TO GET ELLWOOD FENCE.

Our plan is to have one agent in every town for the sale of our woven fencing and by inquiry you can easily learn whether we have an agent in your vicinity or not. If you need fence and find we do not have an agent in your town, write us direct and we shall be glad to name you our lowest prices, either f. o. b. cars at your railroad station, or at the factory. We guarantee the fence to give perfect satisfaction, and you take no risk in sending your orders direct to us. Our regular rolls contain ten, twenty and forty rods each. At a slight advance in price can furnish rolls any length desired.

NOTE.—We do not catalogue our old styles 2, 3 and 4, as there is really nothing in them desirable that is not fully covered by styles shown herein.

THE "YANKEE" GATE

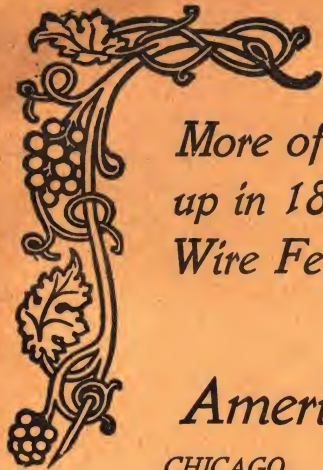


SHOWING GATE COVERED WITH ELLWOOD FENCING.

The "YANKEE" GATE is the easiest farm gate to operate. Made of T steel, all in one piece, very strong, the most convenient in every way. The only gate that can be opened and closed in deep snow without shoveling.

MADE IN ONE HEIGHT, 48 INCHES.
MADE IN TWO LENGTHS, FOR 14-FOOT OPENING
AND FOR 16-FOOT OPENING.

AMERICAN STEEL & WIRE CO.
CHICAGO NEW YORK. SAN FRANCISCO.



*More of our Woven Wire Fences sold and put
up in 1899, than of all other forms of Woven
Wire Fencing combined.*

Yours truly,

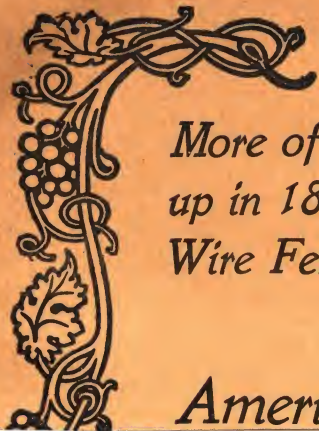
American Steel and Wire Company,

CHICAGO.

NEW YORK.

SAN FRANCISCO.

(General Offices.)



More of our Woven Wire Fences sold and put up in 1899, than of all other forms of Woven Wire Fencing combined.

Yours truly,

American Steel and Wire Company,

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From the collection of Gerron S. Hite, West Texas Collection, Angelo State University, San Angelo, TX

Dec 11/94

Ellwood Fences

MADE BY

American Steel and Wire Company,

CHICAGO.

(General Offices.)

NEW YORK.

SAN FRANCISCO.